

State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

February 28, 2008

TO:

Susan White, Mining Program Coordinator Amoo

FROM:

Beth Ericksen, Mining Engineer

Subject:

Lisbon Valley Mining Co. Surety Reduction Request, M/037/088

Task # 2206

Lisbon Valley Mining Company (LVMC) has submitted a request for a bond reduction of \$563,132.00. Due to missing data, lack of identified assumptions and explanations, evaluative inconsistencies, and lack of transparency in the final bond estimate spreadsheet received by the Division on Feb. 6, 2008, the requested reduction is not recommended.

A general overview of the discrepancies/inconsistencies is outlined as follows:

- Bond calculations include missing or inconsistent acreage
- Spreadsheet numbers do not 'add up'
- No explanation of general or specific assumptions is provided
- No explanation of surety calculations is provided in the plan
- No approved bond scheme is provided in the plan

Due to the lack of demonstrative documentation, the dollar amount of the requested bond reduction cannot be verified. No explanation or outline documentation regarding the surety amount, surety details, or outline of surety plan has been found in the Notice of Intention. Important and necessary detail is lacking or missing in both the final bond estimate and in the current request for bond reduction.

It appears LVMC calculated a bond requirement based on an ultimate reclamation scenario as \$10,172,230 in 2009 dollars. The existing surety with the Division is \$6,076,888.00 assumed to be based on current reclamation obligation.



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Further emphasis substantiating the denial is structured in terms of a scenario. There are several other bond categories that are being ignored in this scenario, with this scenario directed toward the heap/rinse category only. It is determined that heap/rinse is the highest reclamation cost risk based largely on lack of information.

The scenario is outlined below:

The ultimate reclamation obligation is determined to be \$10,722,230 based on information contained in the LVMC Final Bond Estimate spreadsheet. Due to an assumed bond scheme, the bond obligation is calculated at current reclamation obligation of \$6,076,880.00 as determined by LVMC. According to the LVMC current estimate, there is \$3,005,872.00 committed to heap/rinse work. This amount is 49% of the current reclamation obligation. Looking at the ultimate reclamation bond amount, the heap/rinse work obligation is 58% of the total ultimate surety. With full disturbance for each case, this percentage should be consistent.

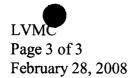
Assigning 58% of the current reclamation obligation results in a heap/rinse amount of \$3,524,595.00. This increase of \$518,723.00 is less than the requested reduction amount but it is without consideration for unknowns and omissions.

Performing a range analysis using a 65th percentile, the dedicated bond for the LVMC current heap/rinse category should be \$4,358,514.00. This scenario alone is enough to deny the request for the surety reduction because of the number of unknowns associated with the heap/rinse. These unknowns include: reclamation details, category specifics, and rinse duration, among others.

In the ultimate vs. current case, the difference does not exceed the reduction request amount, however, once increased risk due to uncertainties is conservatively assigned, the required amount increases substantially in just one reclamation category.

With all the unknowns and uncertainty revolving around the heap/rinse category, a conservative estimate that includes risk should be established. It is in the best interest of the Division to determine an element of risk associated with each of the surety categories. The presented example was for only one of the five main categories (there are sub-categories as well).

To reduce risk factors, resolve inconsistencies, and improve reclamation bond calculation transparency, it will be necessary for the LVMC to satisfactorily identify and explain the full basis and scope of the bond scheme. The bond scheme should be substantially documented in the NOI including identification of category make-up, general and detailed assumptions, and the surety estimate. The operator should be required to provide a much more comprehensive spreadsheet with supporting



documentation before any future bond reduction requests are considered by the Division.

disturbance.															Anticipate Complete	Feb 1 Bond Requirement(in 2	009
Based on <i>Details of Final Reclamation</i> original estimate prepared by The Winters Group 1997											x	. 10			2008	Dollars)	
ACTIVITY	AREA	QUAN	TIT' UNITS	\$/Unit	1	997 \$ Cost	2004	\$ Cost	2006 \$ C	ost 2	007 \$ Cost	2008 \$ Co	ost 2	2009 \$ Cost			
Waste Dump A- 190 acres area of top	456,444		SY														
area of slope scarify top (flat) area	462,680	456,444	SY	0.20		91,28	2 9	109,108	\$ 113,	10 6	114 200	6 417	000	6 404.74			
12 inches soil on top of dump 12 inches soil on slope		152,148 154,227	3 CY	1.25 1.25	9	190,18	5 \$	227,308 230,415	\$ 235,6	44 \$	238,142	\$ 117, \$ 245, \$ 249,		\$ 121,74 \$ 253,62 \$ 257,09	7		
seed entire surface Total-waste dump "A" reclamation		190	acre	174	9	33,06	0 \$	39,513 606,344	\$ 40,9		41,396	\$ 42,	721 572	\$ 44,08	В	0	
Waste Dump B- 94 acres						* p			-		000,244	• 055,	372	4 070,331	0 0 70		
	197,222 258,240	7.7	SY														
scarify top (flat) area 12 inches soil on top of dump		197,222 65,741	CY	0.20 1.25	\$	82,17	6 \$	47,143 98,216				\$ 50,8 \$ 106,1	971 190				
12 inches soil on slope seed entire surface		86,080 94	CY	1.25 174	\$			128,603 19,549				\$ 139,0 \$ 21,1	136	\$ 143,493	3		
Total-waste dump "B" reclamation					\$	245,57	6 \$	293,511								130,998	
Waste Dump C- 120 acres area of the top	344,222		614														
	238,633	344,222	SY SY	0.20	s	68.84		82 282									
12 inches soil on top of dump 12 inches soil on slope		114,741 79,544		1.25 1.25	\$	143,42	5 \$	82,282 171,422 118,838	\$ 177,7	09 \$	179,592	\$ 88,9 \$ 185,3	39 \$	191,270)		
seed entire surface Total-waste dump "C" reclamation		120	acre	174	\$	20,88	0 \$	24,956 397,498	\$ 25,8	71 \$	26,145	\$ 128,4 \$ 26,9 \$ 429,7	82 \$	27,845		442.522	
								007,100	412,0	,,,	410,444	420,7	70 4	443,323	100%	443,523	
Rinse Heap- 12%of total ore neutralized; rin time (2.5 lbs/ton)x(\$0.025/lb)x(5.9M ton)	nsing & evaporation	for 18 months 1,320,00	00 ton	0.063	\$	83,160	\$	99,392	\$ 103,0	38 \$	104,130	\$ 107.4	62 \$	110,901			
abor, power & pump for draindown & evaporation for 18 months		1	lot	99,926	\$			119,431	\$ 123,8	11 \$	125,124	\$ 129,1	28 \$				
Subtotal for heap rinse & evaporation area of the top	578,976		014		\$	183,086	\$	218,824	\$ 226,8	49 \$	229,253	\$ 236,5	90 \$	244,160	100%	244.160	
area of the slope	81,719 12	192,799	SY SY CY	2.50		404 004					9-						
12 inches clay cap on slope	12 24	27,212 385,598	CY	2.50 2.50	\$ \$	481,998 68,031 963,995	\$	576,081 81,310		92 \$	85,186	\$ 87,9	12 \$	90,725			
24 inch crushed rock on slope	24 12	54,425 192,799	CY	2.50 1.25	S	136,062	\$	162,621 288,041	\$ 168,5	35 \$	1,207,077 170,372 301,769	\$ 175,8	24 \$	181,450			
seed entire surface	12	27,212 178	CY acre	1.25 174	\$	34,016 30,972	\$		\$ 42,1	16 \$	42,593 38,782	\$ 43,9	56 \$	45,362			
Subtotal- clay, crushed rock, soil & seeding	for leach pad				\$	1,956,072								2,608,581	100%	2.608,581	
Reclamation of Miscellaneous Areas																	
affinate pond- 12 inches soil PLS pond- 12 inches soil		4,853 4,852	CY	1.25 1.25	S	6,065 6,065				5 \$			37 \$				
LS pond- 12 inches soil vater runoff pond- 12 inches soil		4,852 4,852 8,229	CY	1.25 1.25 1.25	\$ \$	6,065 6,065 10,286	\$	7,436	\$ 7,59		7,837	\$ 9,9	37 \$ 16 \$	10,452			
eed 4 pond areas otal-Pond Area reclamation		14	acre	174	\$ \$	2,436 30,917	\$	2,911	\$ 12,74 \$ 3,0° \$ 38,38	8 \$	3,050	\$ 3,14	92 \$ 48 \$	3,249	1008/	42 504	
Plant & Crusher Area- 25.5 Acres						-0,017		57,138	2 30,30	7 \$	38,956	\$ 42,0	31 \$	43,594	100%	43,594	
pply 12 inches soil eed entire plant area		41,080 26	CY	1.25 174	\$	51,350 4,437			\$ 63,62 \$ 5,49			\$ 66,35 \$ 5.75					
otal- Plant Area Reclamation					\$	55,787			\$ 69,12			\$ 72,09			100%	74.397	
laul Roads- 40 Acres		192,889	SY	0.20	\$	38,578		46,108	\$ 47,79	9 \$	48,306	\$ 49,85	52 \$	51,447			
ontour pply 12 inches soil		64,296 67,511	CY	1.25 1.25	\$	80,370 84,389	\$		\$ 99,58 \$ 104,56		100,636 105,669		57 \$				
eed entire area otal- Plant Reclamation Area		40	acre	174	\$	6,960 210,297			\$ 8,62 \$ 260,56		8,715	\$ 8,99 \$ 271,75	94 \$		100%	280,448	
ower Line Corridor- 64 Acres	No.																
note the power company has requested the pen	line remain	64	acre	n/c	\$							í.,					
eseed Soil Stockpile Areas- 40 Acres		40	acre	174	KO,	0.000						d de	t.d				
otal- Reseed Soil Stock Pile Areas		40	acre	174	\$	6,960 6,960			\$ 8,62 \$ 8,62		8,715 8,715			9,282 9,282	33%	3,063	
ences & Berms Around Open Pits		5,620	LF	3.02	\$	16,972	•	20,285	\$ 21,02	9 \$	24 252	24.02		22.024			
nce around Sentinel Pit 2		2,140 8,980	LF	3.02 3.02	\$	6,463 27,120	\$	7,725		B \$	21,252 8,093 33,959	8,35	2 \$	22,634 8,619 36,167			
nce around GTO Pit otal - Pit Fences		7,410	LF	3.02	\$	22,378 72,933	\$		\$ 27,72	7 \$	28,021 91,324	28,91	8 \$	29,843 97,262	100%	97.262	
urface Drainage Diversion Ditches											.,,,,,		. ,	07,202		01,202	
ach pad area ant area		7,473 1,595	CY	1.25 1.25	\$	9,341 1,994	\$	11,164 2,383	\$ 11,57 \$ 2,47		11,696 2,497			12,457 2,659			
usher area		1,810 13,668	CY	1.25 1.25	\$	2,263 17,085	\$	20,420	\$ 2,80 \$ 21,16	\$	2,834 21,393	22,07		3,018 22,784			
otal-Drainage Diversion Ditches					\$	30,683	\$	36,672	\$ 38,01	\$	38,420	39,64	9 \$	40,918	75%	30,689	
2 inches soil on top		7,582 4.7	CY	1.25 174	\$	9,478		11,328			11,868			12,640			
otal-Drainage Diversion Ditches			acre	1/4	\$	818 10,296		978 12,306	\$ 1,01 \$ 12,75		1,024 \$			1,091 13,731	100%	13,731	
rill Pads and Boreholes entennial Recess Drilling		23	pads	350						8,05	50 \$	0.05		8,689	10004	4.00	
ther Miscellaneous Areas		7 30	pado	000						0,00	50 3	8,25	0 \$	8,689	100%	8,689 50,000	
rect Costs			41			Silver.	1									30,000	
obilization and Demobilization		1	lot	35,000	\$	35,000	\$	41,832	\$ 43,366	\$	43,826 \$	45,22	8 \$	46,675		46,675	
		combined total of															
each Pad & Waste Dumps		previous items			\$	5,533,170	\$	6,613,219	6,855,748	\$ 6	5,928,419 \$	7,150,129	9 \$	7,378,933		3,427,263	
		combined total of															
		previous			\$	400,990	\$	479.261	496.838	s	502,104 \$	518 17	s	534,753		601,872	
sc. Surface Areas		items										0.0,	,	001,100		001,072	
		items								¢ 7	7,474,349 \$	7 713 528	3 \$	7,960,361		4,075,810	
sc. Surface Areas		items			\$	5,969,160	\$	7,134,312	7,395,952	9 /		7,710,020					
		items			\$	5,969,160	5	7,134,312	7,395,952	* /		7,710,020	_				
tal Direct Costs Street Costs ant Dismantling		items	lot	450,000	\$	450,000	9		5 7,395,952 5 557,562		563,472 \$. \$	600,112			
tal Direct Costs Sirect Costs ant Dismantling sumes no salvage value			lot	450,000			9						\$	600,112			
tal Direct Costs Illect Costs Int Dismantling sumes no salvage value agging monitoring wells vells, 500f		1 2,500	If	2.20	\$	450,000 5,500	s	537,838 \$	5 557,562 6 6,815	\$	563,472 \$ 6,887 \$	581,504 7,107	\$	7,335			
tal Direct Costs direct Costs and Dismantling sumes no salvage value ugging monitoring wells vells, 500ft		1	if	2.20 3.30	\$	450,000 5,500 47,520	\$ \$ \$ \$	537,838 \$ 6,574 \$ 56,796 \$	5 557,562 6 6,815 5 58,879	\$ \$	563,472 \$ 6,887 \$ 59,503 \$	7,107 61,407	\$ \$	7,335 63,372			
tal Direct Costs Street Costs ant Dismantling		1 2,500 14,400	If	2.20	\$ \$	450,000 5,500	\$ \$ \$ \$	537,838 \$	5 557,562 6 6,815 5 58,879	\$ \$	563,472 \$ 6,887 \$	7,107 61,407	\$ \$	7,335			
dal Direct Costs direct Costs ant Dismantling sumes no salvage value agging monitoring wells vels, 500t vels 1,200t gineering-5% of total direct costs		1 2,500 14,400	if	2.20 3.30	\$ \$	450,000 5,500 47,520	\$ \$ \$ \$	537,838 \$ 6,574 \$ 56,796 \$	5 557,562 6 6,815 5 58,879 6 369,798	\$ \$ \$	563,472 \$ 6,887 \$ 59,503 \$	7,107 61,407	\$ \$	7,335 63,372			
tal Direct Costs Illrect Costs Int Dismantling Jumes no salvage value Jume		1 2,500 14,400	if if lot	2.20 3.30 298,458	\$ \$ \$	450,000 5,500 47,520 298,458	\$ \$ \$ \$ \$	537,838 \$ 6,574 \$ 56,796 \$ 356,716 \$	5 557,562 6 6,815 6 58,879 6 369,798	\$ \$ \$	563,472 \$ 6,887 \$ 59,503 \$ 373,717 \$	7,107 61,407 385,676	\$ \$ \$ \$ \$	7,335 63,372 398,018			
tal Direct Costs Sirect Costs ant Dismantling sumes no salvage value agging monitoring wells veils ,200t veils 1,200t gineering- 5% of total direct costs weres Cost- OMITTED		1 2,500 14,400 1	If If lot sample	2.20 3.30 298,458	\$ \$ \$ \$	450,000 5,500 47,520 298,458 55,000	\$ \$ \$ \$ \$	537,838 \$ 6,574 \$ 56,796 \$ 356,716 \$	5 557,562 5 6,815 5 58,879 6 369,798 6 68,146 6 30,976	\$ \$ \$ \$	563,472 \$ 6,887 \$ 59,503 \$ 373,717 \$ 68,869 \$	7,107 61,407 385,676 71,073	\$ \$	7,335 63,372 398,018			
tal Direct Costs direct Costs ant Dismantling sumes no salvage value agging monitoring wells velis, 500t gineering-5% of total direct costs wers Cost-OMITTED atter Quality Monitoring for 11 wells vegetation monitoring for 5 years		1 2,500 14,400 1 110 5	If If In Int Int Int Int Int Int Int Int Int	2.20 3.30 298,458 500 5,000	\$ \$ \$ \$	450,000 5,500 47,520 298,458 55,000 25,000	\$ \$ \$ \$ \$	537,838 1 6,574 1 56,796 1 356,716 1 65,736 1 29,880 1 215,373 1 713,431 1	5 557,562 6 6,815 6 58,879 6 68,146 6 30,976 223,271 739,595	\$ \$ \$ \$ \$ \$ \$ \$	563,472 \$ 6,887 \$ 59,503 \$ 373,717 \$ 68,869 \$ 31,304 \$ 225,638 \$ 747,435 \$	7,107 61,407 385,676 71,073 32,306 232,859	\$ \$ \$	7,335 63,372 398,018 73,347 33,340			
tal Direct Costs Int Dismantling sumes no salvage value ugging monitoring wells vells 1,200ft gineering- 5% of total direct costs wers Cost- OMITTED ater Quality Monitoring for 11 wells vegetation monitoring for 5 years		1 2,500 14,400 1 110 5	If If Iot sample year lot	2.20 3.30 298,458 500 5,000 180,199	\$ \$ \$ \$ \$ \$ \$ \$	450,000 5,500 47,520 298,458 55,000 25,000 180,199	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	537,838 \$ 6,574 \$ 56,796 \$ 356,716 \$ 65,736 \$ 29,880 \$ 215,373 \$	6,815 6,815 6,879 6,369,798 6,146 6,30,976 223,271 739,595	\$ \$ \$ \$ \$ \$ \$ \$	6,887 \$ 59,503 \$ 373,717 \$ 68,869 \$ 31,304 \$ 225,638 \$ 747,435 \$	7,107 61,407 385,676 71,073 32,306 232,859 771,353	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,335 63,372 398,018 73,347 33,340 240,310 796,036		1,132,506	
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tal Direct Costs direct Costs ant Dismantling sumes no salvage value ugging monitoring wells vells, 500ft vells 1,200ft gineering-5% of total direct costs overs Cost- OMITTED ster Quality Monitoring for 11 wells vegetation monitoring for 5 years instruction management ntingency (10% of Total Direct Costs) tal Indirect Costs		1 2,500 14,400 1 110 5	If If Iot sample year lot	2.20 3.30 298,458 500 5,000 180,199 596,916 Escalation 0 1998	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,500 47,520 298,458 55,000 180,199 596,916 ,658,593 (25,8%/s) 627,753	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	537,838 1 6,574 1 56,796 1 356,716 1 29,880 1 215,373 1 713,431 1 1,982,342 1 1	5 557,562 6 6,815 5 58,879 3 369,798 6 8,146 3 30,976 223,271 7 39,595 2,055,042	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	563,472 \$ 6,887 \$ 59,503 \$ 373,717 \$ 68,869 \$ 31,304 \$ 225,638 \$ 747,435 \$ 5,076,825 \$	71,073 32,306 232,859 771,353 2,143,284	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,335 63,372 398,018 73,347 33,340 240,310 796,036 2,211,869		5,208,316 Existing Bond	6,076,
tal Direct Costs direct Costs ant Dismantling sumes no salvage value ugging monitoring wells vells, 500ft vells 1,200ft gineering-5% of total direct costs overs Cost- OMITTED ster Quality Monitoring for 11 wells vegetation monitoring for 5 years instruction management ntingency (10% of Total Direct Costs) tal Indirect Costs		1 2,500 14,400 1 110 5	If If Iot sample year lot	2.20 3.30 298,458 500 5,000 180,199 596,916 Escalation 0 1998 1999 2000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450,000 5,500 47,520 298,458 55,000 180,199 596,916 ,658,593 627,753 **(2.58%)) 627,753	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	537,838 1 6,574 1 56,796 1 356,716 1 29,880 1 215,373 1 713,431 1 1,982,342 1 1	5 557,562 6 6,815 5 58,879 3 369,798 6 8,146 3 30,976 223,271 7 39,595 2,055,042	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	563,472 \$ 6,887 \$ 59,503 \$ 373,717 \$ 68,869 \$ 31,304 \$ 225,638 \$ 747,435 \$ 5,076,825 \$	71,073 32,306 232,859 771,353 2,143,284	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,335 63,372 398,018 73,347 33,340 240,310 796,036 2,211,869		5,208,316 Existing Bond	6,076
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